

SUSPENSION AND CONTROL SYSTEM FOR LEANING VEHICLE

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Cited documents:

 US3002742

 US4288096

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Abstract of WO9947372

Briefly, a suspension (10) for a three-wheel vehicle to improve comfort and safety by facilitating body and wheel lean while supporting vehicle weight, absorbing road forces, damping oscillations, and accommodating vehicle propulsion. The suspension is an articulated structure (14) approximating a flexible parallelogram between two opposite wheels of the vehicle. Roll angle is controlled by the rider or by a servomechanism that causes changes in a diagonal dimension of the parallelogram. Damping is achieved by a linear hydraulic damper unit placed so as to resist changes in flexure of a transverse beam spring (21) while allowing roll freedom.

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